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Docket No. 403-03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

application No.:

10/687,012

Group Art Unit:

2862

Filing Date:

October 16, 2003

Examiner:

Not Assigned

Inventor:

Romalis et al.

Title of Application:

High Sensitivity Atomic Magnetometer and Methods for Using Same

Mail Stop Missing Parts Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT - DRAWINGS

Dear Sir:

This Preliminary Amendment responds to the requirement for replacement drawings in compliance with 37 CFR 1.84 (l) and (p)(1) identified in the Notice to File Missing Parts of Nonprovisional Application mailed January 30, 2004.

DRAWINGS

Please find appended hereto Drawing Sheets 1-12 containing Amended Figures 1-13. The drawings have been amended by providing heavier lines in the drawings, replacing colors with shading in black or gray, and enlarging certain drawings.

In amended Figs. 1 and 5, a shaded box (Fig. 1) or oval (Fig. 5) representing magnetic shielding identified by reference number 180 is now present. Although the reference number 180 appears in both Figs. 1 and 5, the shielding was absent in the original Figs. 1 and 5 as filed due to a computer error. The magnetic shielding is identified in the specification as filed on page 20, 4th paragraph, and page 25, paragraph 6, and referred to at those locations as reference number 180.

Figs. 7, 8 and 9 as originally filed had poor resolution due to low resolution pixel copying. In amended Figs. 7, 8 and 9 the graphical representations have been enhanced.

No new matter is introduced by these amended drawings.

Respectfully submitted,

Date: March 30, 2004

39,096

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